

# R5C4-L SERIES

## 4" LED DOWNLIGHT

### WITH INTEGRATED COB AND DRIVER

### OPTIONAL EMERGENCY REMOTE

The 4" LED downlight series is developed with an integrated COB and built in driver with a choice of two lumen options. This fixture is ideal for commercial and residential use, proposing a variety of trim selections and beam angles.



## FEATURES & SPECIFICATIONS

### CONSTRUCTION

#### Housing

Housings are constructed of heavy duty galvanized steel with built-in thermal protection. Vertically adjustable to accommodate up to a 1-1/4" ceiling thickness for the new construction housing.

- Remodeler housing contains self-positioning screw in mounting system that allows for secure installation. The screws are positioned at an angle to assure ease of service.
- Non-IC housing complete with pre-installed hanger bars adjustable from 13" to 26" span with built-in spike and T-bar clips.
- IC housing complete with pre-installed hanger bars adjustable to 13" to 26" with built-in spike and T-bar clips.

#### Trims

Trims constructed with cold rolled steel with stainless steel clips. A variety of trims styles

and colors are available for your design needs. Rotation angle 26°.

#### Heatsink

Extruded aluminum heatsink to maximize heat dissipation and promote long life.

### INSTALLATION

The self-positioning screw-in mounting system allows for an easy, fast and secure installation.

### ELECTRICAL

All housings are equipped with "quick connect" wire connectors that allow easy and rapid connections of the fixture to the main power supply.

#### LED

A variety of color temperatures : available in 2 700 K, 3 000 K, 3 500 K and 4 000 K, with a choice of 80+ or 90+ CRI. Over 71% lumen maintenance expected at 50 000 hours.

#### MacAdam Steps

Color consistency within 3 MacAdam steps (SDCM).

#### Driver

- 9 W and 13 W, 120 V, 277 V and 347 V
- Dimmable with line voltage LE + TE dimmers
- 0-10 V dimming standard
- Operating temperature: - 40°C to 50°C (-40°F to 122°F)

#### Beam Angles

Multiple beam angles available to meet your project requirements:

- 19° : Spot
- 24° : Medium
- 43° : Flood

### OPTIONAL EMERGENCY LIGHTING

#### BRIDGE Normally ON Emergency Remote LED Downlight

- Consuming 11 W, 12 - 24 V DC
- 200 mA constant current
- Delivers 898 - 1 020 lumens in emergency mode
- Ease of maintenance when

used with AimLite emergency lighting battery units complete with auto test function

- Complements AimLite's normally ON LED Downlight family
- Patent pending









**Please view the BRIDGE specification section for more details on this technology**

### EMERGENCY LIGHTING COMPLIANCES

- CSA certified as a C22.2 C141-15 emergency lighting luminaire
- Meets ICES-005 requirements

### GENERAL LIGHTING COMPLIANCES

- Photometric testing in compliance with IES LM 79-80
- Air-tight as per ASTM-E283 standard
- Meets requirements of ICES-005
- cCSAus rated for wet and damp location

OVERVIEW			
LIGHT SOURCE	LED	EFFICACY [LM/W]	123 - 128
WATTS [W]	9 - 13	COLOR TEMPERATURE [K]	2 700, 3 000, 3 500, 4 000
LUMEN OUTPUT [LM] <sup>1</sup>	1 152 - 1 593	CRI	80+ , 90+
<div>         </div>			

<sup>1</sup> Lumen information is based on medium beam reflector and 3 000 K color temperature.

<sup>2</sup> 5 year warranty for the BRIDGE normally ON remote.

<sup>3</sup> Only with R5C407 trim.

# R5CA-L

## ORDERING GUIDE - HOUSINGS

SERIES <sup>1</sup>	LUMEN PACKAGE [LM]	VOLTS [VAC]	OPTIONS
R5C4 - NON IC	LA2 - 1152	4 - 120 <sup>2</sup>	DIM1 - 0-10 V DC DIMMING
R5C4R - REMODELER	LA3 - 1593	11 - 277 <sup>3</sup>	EL - BRIDGE NORMALLY ON EMERGENCY REMOTE <sup>4,5</sup>
R5C4IC - IC		8 - 347 <sup>3</sup>	

<sup>1</sup> Please note each housing and trim should correspond to a specific lumen package. For more information please see table below.

<sup>2</sup> 4-120 V comes standard with line voltage dimming unless DIM1 is chosen.

<sup>3</sup> 11- 277V and 8- 347V come standard with DIM1 option.

<sup>4</sup> Not available with R5C4 - Non IC, only available with R5C4R - Remodeler and R5C4IC - IC

<sup>5</sup> When in emergency mode, luminaire only consumes 11 W.

For emergency lighting spacing, please see page 5.

## ORDERING GUIDE - TRIMS

SERIES	LUMEN PACKAGE [LM] <sup>2</sup>	CRI	TRIM COLOR	COLOR TEMP. [K]	BEAM ANGLES <sup>4</sup> [°]
R5C401	LA2 - 1152	80 - 80+	CL-WH - CLEAR - WHITE	27K - 2 700	S - SPOT [19]
R5C402	LA3 - 1593	90 - 90+	BK - BLACK	30K - 3 000	M - MEDIUM [24]
			BZ - BRONZE	35K - 3 500 <sup>3</sup>	F - FLOOD [43]
			SC - SATIN CHROME	40K - 4 000	
			WH - WHITE		
R5C403			BK-SC - BLACK - SATIN CHROME		
			WH-WH - WHITE - WHITE		
R5C407 <sup>1</sup>			SC - SATIN CHROME		
			WH - WHITE		
R5C408			WH - WHITE		

<sup>1</sup> Wet location.

<sup>2</sup> Lumen is based on the medium beam angle at 3 000 K. Please refer to IES files or below lumen tables for more information.

<sup>3</sup> 3 500K is only available with 80+ CRI.

<sup>4</sup> Refer to the photometrics chart for more details.

## BRIDGE TECHNICAL SPECIFICATION TABLE

SERIES	CRI	LUMEN PACKAGE	WATTS [W]	BRIDGE WATTS [W]	COLOR TEMPERATURE [K]	BEAM ANGLES [°]	BRIDGE LUMEN OUTPUT [LM]
R5C4-L	80+	LA2	7.5	11	3 000	S - SPOT [19]	989
		LA3	11.5			S - SPOT [19]	898
		LA2	7.5			M - MEDIUM [24]	1 020
		LA3	11.5			M - MEDIUM [24]	946
		LA2	7.5			F - FLOOD [43]	988
		LA3	11.5			F - FLOOD [43]	905

## TRIMS

### R5C401-L

REGRESSED ROUND GIMBAL



CLEAR - WHITE

### R5C402-L

GIMBAL



BLACK

### R5C403-L

REGRESSED SQUARE GIMBAL



BLACK - SATIN CHROME

### R5C407-L

SHOWER TRIM



WHITE

### R5C408-L

SLOT APERTURE (WALL WASHER)



WHITE



BRONZE WHITE



WHITE - WHITE



SATIN CHROME



SATIN CHROME

# R5CA-L

## TECHNICAL SPECIFICATION TABLE

LUMEN PACKAGE	WATTS [W]	VOLTS [V AC]	LUMEN [LM]	EFFICIENCY [LM/W]	CRI	LIFE L70 [HRS]	BEAM ANGLE [°]	POWER FACTOR	THD [%]
<b>2 700 K</b>									
LA2	9	120	1 093	121	80+	50 000	MEDIUM [24]	>0.9	<20
LA3	15	120	1 511	101	80+	50 000	MEDIUM [24]	>0.9	<20
<b>3 000 K</b>									
LA2	9	120	1 152	128	80+	50 000	MEDIUM [24]	>0.9	<20
LA3	15	120	1 593	106	80+	50 000	MEDIUM [24]	>0.9	<20
<b>3 500 K</b>									
LA2	9	120	1 182	131	80+	50 000	MEDIUM [24]	>0.9	<20
LA3	15	120	1 635	109	80+	50 000	MEDIUM [24]	>0.9	<20
<b>4 000 K</b>									
LA2	9	120	1 204	134	80+	50 000	MEDIUM [24]	>0.9	<20
LA3	15	120	1 437	96	80+	50 000	MEDIUM [24]	>0.9	<20

## COMPATIBLE DIMMERS<sup>1</sup>

BRAND	0-10 V DIMMERS	TRAILING EDGE DIMMERS	LEADING EDGE DIMMERS
LEVITON	DD 710	IPE04-1LZ, VZE06-1LX, 6615-POT	6602-X, 6681-X, 6683-X, 6684-X, 700-X, 705-X, 6633, 6674, IPI06-1LZ
LUTRON	DIVA DVSC TV NOVA NTSTV DV	NTELV-600-XX, SELV-303P, MAELV-600-XX, DVELV-300P-XX, SELV-300P-XX	SLV-600X, S2-LX, GL-600H, NFTU-5A, DVLV-600P
PHILIPS		SR400RPC120	
COOPER			9530XXX
LEGRAND	RH4FBL3PTC		

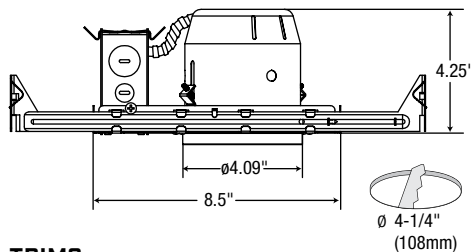
<sup>1</sup> Dimming range: 1%-100%.

Note: The above table shows dimmers that have been tested and have demonstrated proper operation under normal conditions. Each installation being unique, various factors such as load, common neutrals or other electrical products on the circuit can, in certain instances, cause variance in system performance. Read and comply to the dimmer installation instructions. Consult dimming system manufacturer for additional support in operation. AimLite recommends to use dimmers designed to work with LED products. Older dimmers designed for incandescent products may cause erratic operation. Some dimmers may require more than one product for stable operation. The maximum number of products is determined by the dimmer wattage rating with LEDs. Be careful, these dimmers have different ratings depending on the product type. Again, refer to the dimmer installation instructions.

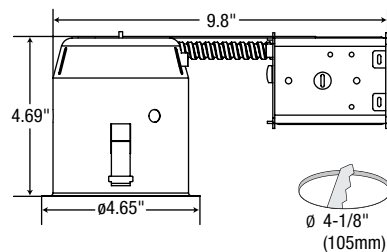
## DIMENSIONS

### HOUSINGS

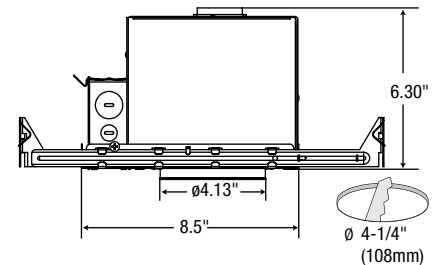
R5C4-L  
NON-IC FRAME-IN KIT



R5C4R-L  
REMODELER

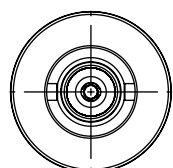
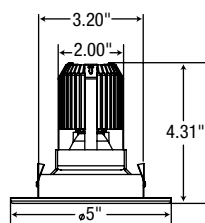


R5C4IC-L  
IC FRAME IN KIT

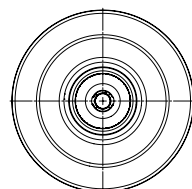
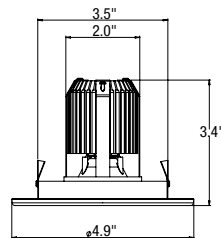


### TRIMS

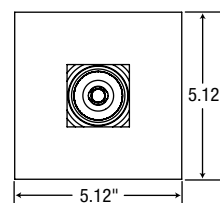
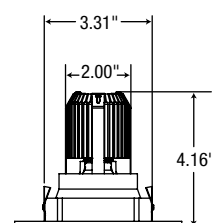
R5C401-L



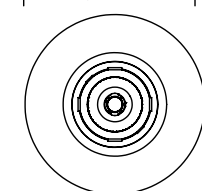
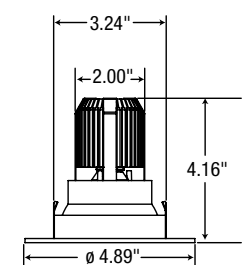
R5C402-L & R5C408-L



R5C403-L



R5C407-L



## BRIDGE

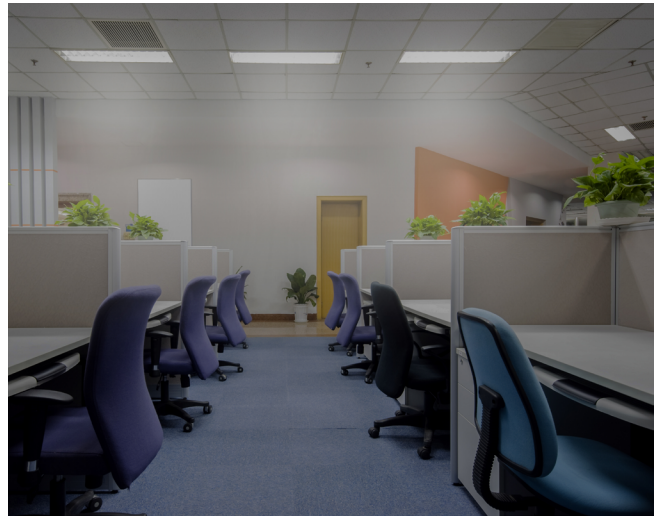
### NORMALLY ON EMERGENCY REMOTE LUMINAIRE

This luminaire can be used with an emergency backup powered by either a 12 V or 24 V DC AimLite battery unit, complete with or without auto test.

#### NORMAL MODE



#### EMERGENCY MODE



#### TYPICAL SPECIFICATION

Supply and install AimLite BRIDGE \_\_\_\_\_ in, LED downlight, Model number: \_\_\_\_\_ remote normally ON emergency luminaire, CSA C22.2 141-15 certified and meet the requirements prescribed by ICES-005. Normally ON when AC is present and when connected to an AimLite battery unit complete with or without auto test, the luminaire shall act as an emergency lighting remote and consume 11 W of DC power in \_\_\_\_\_ V producing 898 - 1 020 lumens in emergency mode.

The remote normally ON emergency luminaire shall be powered by an AimLite emergency lighting battery unit as described herein and shown on the drawings. The AimLite auto diagnostic micro-controller board shall supply the rated load for a minimum of a 1/2 hour to 87.5% of the rated battery voltage. The unit shall be rated 120 V, 277 V or 347 V, 60 Hz and be CSA listed. The unit shall have an output of: \_\_\_\_ V and \_\_\_\_ W.

The charge voltage factory set to  $\pm 1\%$  tolerance. High efficiency, rapid recovery, precision control charging system shall be employed to promote long battery life and reduce the potential for grid corrosion. The charger shall provide a continuous high charge to recharge the battery, when the battery is at full capacity, the charger will shut-off. Periodically the charger shall provide a pulse of energy to keep the battery topped off. The pulse charger shall be precisely regulated and shall charge the battery in relation to its temperature, state of charge and input voltage fluctuations. The charger shall be current limited, temperature compensated, short-circuit proof and reverse polarity protected. The unit shall be furnished with an electronic lockout circuit, which will connect the battery when the AC circuit is activated, and an electronic brownout circuit, which will activate the emergency lights when utility power dips below 75% of nominal voltage. A low voltage battery protection circuit shall be provided and will disconnect the load when the battery reaches the end of discharge.

The automated testing performed by the AimLite auto test system has been designed to comply with all of the requirements of the National Fire Code. Every month, a 5 minute discharge and diagnostic test checks the operational status of the unit. Every 12 months, this test is extended to the full 30 minute, code required duration. This ensures that the battery charger is recharging the battery in accordance with code requirements.

The unit shall be AimLite model: EBST \_\_\_\_\_

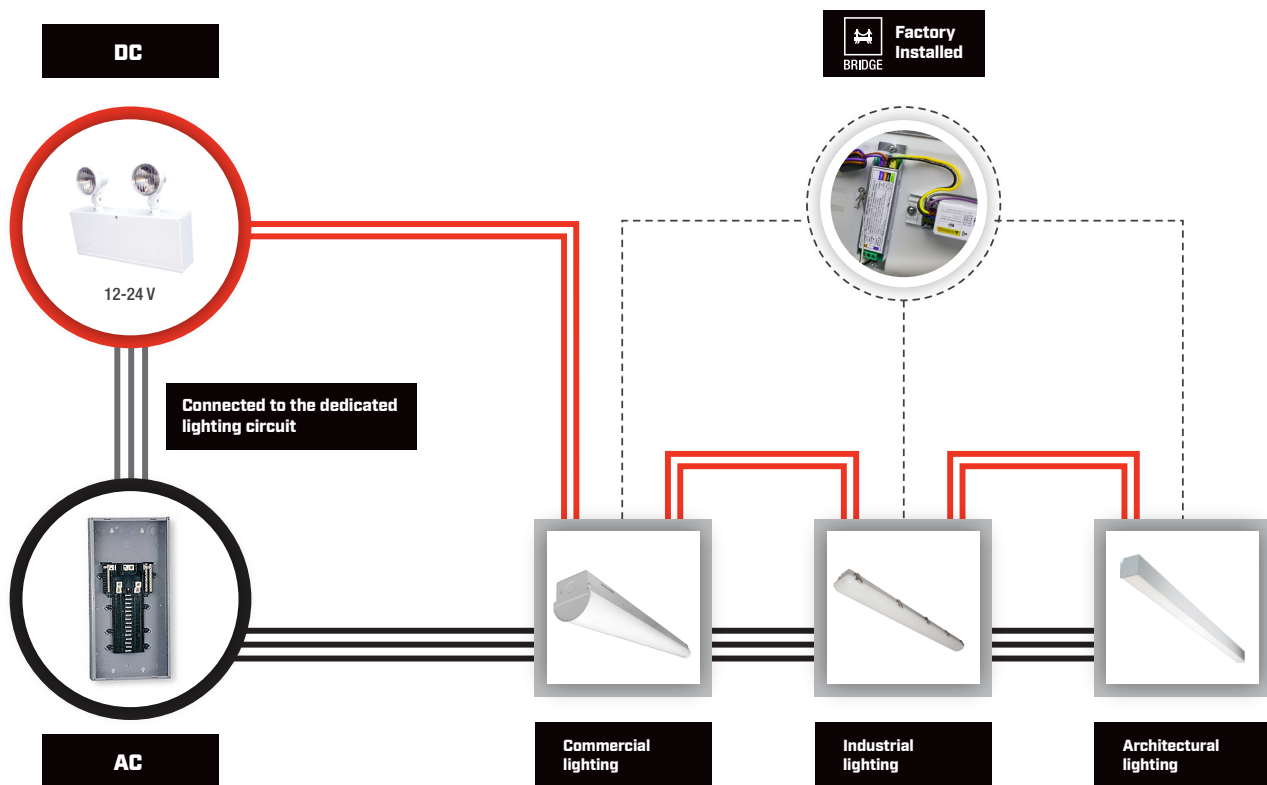
Data is based upon tests performed in a controlled environment. Actual performance can vary depending on operating conditions. All products are subject to change or may be discontinued any time without notice.

## BRIDGE

NORMALLY ON EMERGENCY REMOTE LUMINAIRE



## BRIDGE WIRING DIAGRAM



### LEGEND



AC wires



Connected to the dedicated lighting circuit



DC wires



BRIDGE Factory Installed

Emergency mode	Spacing
R5C4-L	Average spacing for 1 out of every 3 luminaires, normally ON in the path of egress, when at 8, 10, or 12 foot mounting heights.

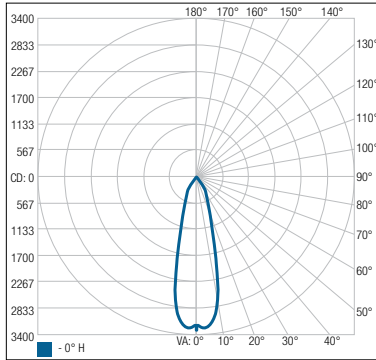
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# R5CA-L

## GENERAL LIGHTING PHOTOMETRIC DATA<sup>1</sup>

R5C4-LA28030K/M • 1152.4 LM • 80 CRI

### POLAR CANDELA DISTRIBUTION



### ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	939.4	81.5%
0-40	1127.9	97.9%
0-60	1142.4	99.1%
60-90	9.9	0.9%
70-100	4.0	0.3%
90-120	0.8	0%
0-90	1152.4	100%
90-180	0.8	0%
0-180	1152.4	100%

INPUT WATTAGE	8.58
TOTAL LUMINAIRE LUMENS	1152.4
LUMENS PER WATT	134.3
BEAM ANGLE	MEDIUM 24°

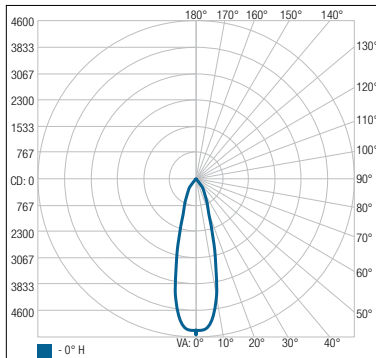
### ILLUMINANCE AT A DISTANCE

CENTER BEAM FC	BEAM WIDTH
1.7'	1145
3.3'	304
5.0'	132
6.7'	73.7
8.3'	48
10.0'	33.1

Vert. Spread: 28.1°

R5C4-LA38030K/M • 1593.4 LM • 90 CRI

### POLAR CANDELA DISTRIBUTION



### ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	1288.5	80.9%
0-40	1559.3	97.9%
0-60	1579.6	99.1%
60-90	13.8	0.9%
70-100	5.9	0.4%
90-120	0.8	0%
0-90	1593.4	100%
90-180	0.8	0%
0-180	1593.4	100%

INPUT WATTAGE	15.03
TOTAL LUMINAIRE LUMENS	1593.4
LUMENS PER WATT	106
BEAM ANGLE	MEDIUM 24°

### ILLUMINANCE AT A DISTANCE

CENTER BEAM FC	BEAM WIDTH
1.7'	1570
3.3'	417
5.0'	182
6.7'	101
8.3'	65.9
10.0'	45.4

Vert. Spread: 27.9°

<sup>1</sup> Complete IES files available on our website.